One-Cycle Control, Inc. The Art of Power Processing

Dynamic VAR Compensator

Control grid voltage precisely, autonomously

www.onecyclecontrol.com

OCC-DVC



BENEFITS

- Hardware enabled control
 - Ultrafast, precise, and stable
- Simple graphical user interface
 - Low maintenance & low service
- Small footprint
 - Easy to site
- Modular plug & play architecture
 - Scalable
- · Long life design
 - Low logistics & installation cost
- Light weight minimum raw material usage
 - Environmentally friendly
- ETL listed OCC VAR module
 - Safe and high quality
- Department of Energy sponsored and award winning
 - Highly competitive

FEATURES

- One-Cycle Control Technology
- Ultra-fast bidirectional VAR control (± 240kVAR)
- Regulate voltage within a band (e.g. ±1V)
- Manual or remote voltage set point control
- Autonomous grid "reflexes"
- Web accessible graphical user interface
- Installation on a standard 4'x4' transformer pad
- 400Hz or variable frequency by custom order
- Modular scalable to MVAR

OVERVIEW

First time in history, grid voltage can be controlled to a setpoint within ±1v. OCC-DVC leverages unique patented technology from Caltech & the University of California and the experience of the world-leading experts in power electronics. OCC-DVC delivers ultrafast, precise, reliable, and autonomous voltage regulation with a simple user interface and small footprint. OCC-DVC enables local voltage "reflexes" and wide-area voltage profile optimization. OCC-DVC is now in commercial service on the US grid.

APPLICATIONS

- Increase renewable penetration by real-time distribution voltage control
- Reduce equipment damage & disruption by stabilizing facility voltage
- Improve grid resilience by autonomous voltage-control
- Improve grid efficiency by voltage-profile optimization
- Fast "reflexes" stabilize rapid-dynamic micro-grids
- Collaborate with LTC/SCB to reduce their cycling

The Art of Power Pro	cessing
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	The Art of Power Processing			
	GTI3050A6480/8002IR	GTI3050A5380/6352IR	GTI3100A6208/3652IR	
Electrical Specification				
AC Phase / Wires		3 Phase / 3 Wires		
AC Freq Range (Hz)	57 - 63	47 - 53	57 - 63	
AC Voltage Range (V, rms) Line-to-Line	400 - 552	320 - 440	175 - 240	
Max AC Current (A, rms)	300		600	
Efficiency @ Full Power		> 97%		
AC Current THD @ Full Power		< 5%		
Environment Specifications				
Operating Temp. (°C)		0 to 40		
Operating Relative Humidity w/o Condensation	0 - 95%			
Storage Temp. (°C)	-10 to 55			
Safety				
UL 508C	ETL Listed			

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Web accessible graphical user interface



